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SUMMARY OF TRADE AND TARIFF INFORMATION

Prepared in Terms of the Tariff Schedules of the United States

FLAT GLASS AND CERTAIN FLAT GLASS PRODUCTS

TSUS Items 541.01-544.43 and 544.61-544.64

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UNITED STATES INTERNATIONAL TRADE COMMISSION

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FOREWORD

In 1977 the United States International Trade Commission initiated its current Summary of Trade and Tariff Information series of informational reports on the thousands of products imported into and exported from the United States. The summaries contain information on product uses, U.S. producers, and customs treatment; and include analyses of the basic factors affecting trends in consumption, production, and trade as well as those bearing on the competitiveness of U.S. industries in domestic and foreign markets.

This supplement is designed to maintain the usefulness of the original summary prepared for this commodity area by providing current consumption and trade statistics and information on significant developments since the initial summary's release. The current statistical tables and tariff schedule extracts contained in the looseleaf supplement can easily be substituted for the corresponding pages in the original summary.

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Overview

During 1981-84, the number of U.S. producers of flat glass and certain flat glass products made in establishments producing glass increased from 43 to 49 companies, principally because of the economic recovery in the home-building and automobile-making industries during 1983-84. Employment declined from 17,300 workers in 1981 to 15,300 workers in 1982 before increasing to approximately 16,000 in 1984. Several hundred manufacturers nationwide produce flat glass products from purchased flat glass.

Apparent U.S. consumption of flat glass and certain flat glass products fell from $3.2 billion in 1981 to $3.1 billion in 1982 before rising 19 percent to $3.7 billion in 1984. U.S. producers' shipments, which declined from an estimated $3.3 billion in 1981 to $3.2 billion in 1982, rose to an estimated $3.7 billion in 1984.

U.S. foreign trade in flat glass and certain flat glass products was marked by a deficit of $19.5 million in 1984, as imports reached record levels and exports recovered only slightly from sluggish foreign demand during 1982 and 1983. U.S. imports accounted for 4.5 to 8.6 percent of apparent consumption during this period. Such imports rose 125 percent during 1981-84, from $142.2 million in 1981 to $320.6 million in 1984. U.S. exports accounted for an average of 9 percent of producers' shipments during the period. Exports declined from $320.3 million in 1981 to $285.8 million in 1983, then rose to $301.1 million in 1984. Canada was both the major foreign supplier of and major export market for flat glass and certain flat glass products during 1981-84, principally because of its proximity to the United States and the interrelationship of several major U.S. and Canadian flat glass manufacturers.

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SUPPLEMENT TO THE SUMMARY OF TRADE AND TARIFF INFORMATION ON FLAT GLASS AND CERTAIN FLAT GLASS PRODUCTS, TSUS ITEMS 541.01-544.43 AND 544.61-544.64 (PUBLISHED IN OCTOBER 1982)

U.S. industry

The number of U.S. producers of flat glass 1/ and certain flat glass products 2/ made in establishments producing glass increased during 1981-84, from 43 to 49 producers. 3/ These establishments are located throughout the United States, but the largest share of employees (55 percent) are in Tennessee, Ohio, Pennsylvania, and Michigan. The industry was adversely affected by the economic recession in 1982 and the corresponding decline in demand for flat glass and its products, especially for flat glass in the automobile and construction industries, its two largest markets. Industry employment fell from 17,300 workers in 1981 to 15,300 workers in 1982. However, renewed demand from the home-building and the automobile-making industries during 1983-84 is believed to have increased employment to approximately 16,000. Several hundred companies purchase flat glass for further processing into flat glass products.

The float-glass process remains the predominant method of producing flat glass in the United States. Float glass, which has displaced sheet glass and plate glass in the principal markets, accounts for more than 95 percent of all domestically produced flat glass. Six large multiproduct firms produce float glass, flat glass products (rolled, tempered, and laminated), and other products. Four of these firms participate in foreign production of flat glass to serve those markets through arrangements ranging from process licensing agreements to co-ownership with foreign companies of plants that produce flat glass. One domestic firm is partly owned by a major producer of flat glass in the United Kingdom. Sheet glass is currently produced in the United States by one firm operating one plant. There is no domestic production of plate glass, which has generally been replaced by less expensive float glass.

1/ Flat glass includes float, sheet, and plate glass.

2/ Certain flat glass products include such products as ribbon, wire, and stained glass.

3/ U.S. Department of Commerce, Bureau of the Census, 1982 Census of Manufactures, MC 82-I-32A, March 1985.

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U.S. customs treatment

Flat glass that enters the United States under TSUS items 542.57-542.98 became eligible for duty-free treatment under the Generalized System of Preferences (GSP) as of April 1, 1984. All flat glass and flat glass products are also eligible for duty-free treatment under the Caribbean Basin Economic Recovery Act (CBERA). No other significant changes in U.S. customs treatment of flat glass and certain flat glass products have occurred since 1981, although there have been statutory investigations on these products.

On October 8, 1982, the U.S. International Trade Commission instituted two investigations under section 104(b) of the Trade Agreements Act of 1979 as to the likely effects on the U.S. industry of the revocation of existing countervailing duty orders on unprocessed float glass from Belgium (investigation No. 104-TAA-11) and Italy (investigation No. 104-TAA-12). On January 27, 1983, the Commission unanimously determined that the U.S. industry producing unprocessed float glass would not be injured by reason of imports covered by the outstanding countervailing duty orders if the orders were to be revoked. As a result, the Department of Commerce revoked the countervailing duty orders concerning float glass from Belgium that had been entered or withdrawn from warehouse for consumption on or after February 20, 1981, and float glass from Italy that had been entered or withdrawn from warehouse for consumption on or after April 3, 1980.

Subtitle B of title VII of the Tariff Act of 1930, as amended by the Trade Agreements Act of 1979 (19 U.S.C. 1673), provides that antidumping duties will be imposed when the Department of Commerce determines that a class or kind of foreign merchandise is being, or is likely to be, sold in the United States at less than fair value, and the U.S. International Trade Commission determines that an industry in the United States is materially injured or threatened with material injury, or that the establishment of an industry is materially retarded, by reason of imports of that merchandise. As a result of a petition filed under this law on March 16, 1983, the U.S. International Trade Commission instituted preliminary antidumping investigations (Nos. 731-TA-127, 128, and 129) under section 733(a) of the Tariff Act of 1930 on thin sheet glass from Switzerland, Belgium, and the Federal Republic of Germany. The Commission found in April 1983 in preliminary investigations that there was no reasonable indication that an industry in the United States was materially injured or threatened with material injury by reason of imports of thin sheet glass from Switzerland, Belgium, or the Federal Republic of Germany, which are allegedly sold in the United States at less than fair value (LTFV). 1/

An excerpt of the Tariff Schedules of the United States Annotated (1985) (TSUSA) covering flat glass and certain flat glass products is provided in appendix A.

1/ Thin Sheet Glass from Switzerland, Belgium, and the Federal Republic of Germany: Determinations of the Commission in Investigations Nos. 731-TA-127, 128, and 129 (Preliminary) . . ., USITC Publication 1376, May 1983.

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U.S. consumption

Apparent U.S. consumption of flat glass and certain flat glass products declined by 3 percent, from $3.2 billion in 1981 to $3.1 billion in 1982 and then rose by 19 percent to $3.7 billion in 1984 (app. B, table 1). Imports increased their share of the U.S. market from 4.5 percent to 8.6 percent during 1981-84.

Consumption of flat glass is principally determined by demand from the construction and automobile industries, and economic downturns in these markets contributed to the decline in consumption in 1982. The growth in 1983 and 1984 primarily reflected the increase in the number of new housing starts during those years and the renewed demand for flat glass from the domestic automobile industry.

U.S. producers' shipments

U.S. producers' shipments fell by 3 percent from $3.3 billion in 1981 to $3.2 billion in 1982 and then increased by 16 percent to an estimated $3.7 billion in 1984 (table 1). The fluctuations in shipments resulted primarily from changes in demand for flat glass from the automobile and construction industries. In 1982 (the last year for reported data), unprocessed flat glass accounted for about 28 percent of total shipments of flat glass. Laminated glass accounted for 22 percent, tempered glass accounted for 30 percent, and the remainder consisted of other types of flat glass, such as rolled and wire glass.

U.S. trade

U.S. imports.--Total U.S. imports of flat glass and certain flat glass products increased by 125 percent during 1981-84, from $142.2 million in 1981 to $320.6 million in 1984 (table 2), accounting for an average of 7 percent of consumption during the period. The import increase primarily reflected larger shipments of flat glass from Canada and Mexico, the two principal suppliers in 1984.

Canada was the principal source of flat glass imports during 1981-84, accounting for an average of 41 percent of U.S. imports. Several of the major Canadian flat glass producers are subsidiaries of U.S. flat glass manufacturers, which contributed to the extensive trade between the two countries.

Mexico, which emerged as the second largest supplier of flat glass to the United States in 1984, accounted for an average of 12 percent of U.S. imports of flat glass during 1981-84. Since the addition of two new flat glass facilities in late 1981, one of which is 100 percent export-oriented and a joint venture of a Mexican and U.S. glass company, Mexican flat glass

producers have emphasized export markets, particularly the United States, Canada, and other major glass-consuming countries. 1/

Imports of unprocessed ordinary glass (float, plate, and sheet glass) rose from 68.1 million square feet ($21.8 million) in 1981 to 109.3 million square feet ($28.5 million) in 1983, an increase of 60 percent (table 3). In 1984, imports of this glass fell slightly to 105.2 million square feet ($28.2 million). Romania, Mexico, and West Germany were the major suppliers, in terms of quantity, in 1984.

Imports of unprocessed colored glass (float, plate, and sheet glass) doubled, rising from 7.9 million square feet ($8.8 million) in 1981 to 15.9 million square feet ($11.0 million) in 1983 (table 4). In 1984, U.S. imports fell slightly to 15.6 million square feet ($9.7 million). The major suppliers were Mexico, West Germany, and Canada.

Imports of rolled and wire glass decreased 23 percent, from 13.0 million square feet ($12.1 million) in 1981 to 10.0 million square feet ($10.4 million) in 1982, before rising to 14.2 million square feet ($10.8 million) in 1984 (table 5). In terms of quantity, Japan supplied 48 percent of these imports in 1984.

Tempered glass accounted for 36 percent of the total value of imports of flat glass and certain flat glass products in 1984. Such imports rose from 24.3 million square feet ($50.1 million) in 1981 to 76.8 million square feet ($116.7 million) in 1984 (table 6). Canada and Mexico accounted for 75 percent of tempered glass imports in 1984.

Laminated glass accounted for 37 percent of imports in 1984. Imports increased from $27.9 million in 1981 to $119.5 million in 1984 (table 7). Canada and Mexico were the major suppliers accounting for 79 percent of imports of laminated glass in 1984.

Imports of multiple-glazed sealed insulating units accounted for about 1 percent of the total value of imports of the subject products in 1984. Imports of these items decreased from 126,000 units ($1.3 million) in 1981 to 35,000 units ($1.2 million) in 1982 before rising to 75,000 units ($3.3 million) in 1984 (table 8). The major suppliers of these imports were Japan and Canada.

Imports of painted, colored, or stained glass windows accounted for less than 1 percent of the total value of imports in 1984. Such imports declined from 229,000 square feet ($814,000) in 1981 to 165,000 square feet ($648,000) in 1982 before rising to 281,000 square feet ($608,000) in 1984 (table 9). The United Kingdom and Argentina accounted for 80 percent of the quantity of these imports in 1984.

1/ "Grupo Vitro dominates the market, but high demand and the need for special glass still offer opportunities for the small company," Mexican-American Review, August 1982.

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Imports of other flat glass and its products accounted for 10 percent of total imports in 1984. These imports increased 65 percent from $19.3 million in 1981 to $31.8 million in 1984 (table 10). Japan was the principal supplier. West Germany and Belgium were secondary sources.

GSP imports increased during the period from $11.5 million in 1981 to $56.8 million in 1984, accounting for 18 percent of total U.S. flat glass imports in 1984. Mexico was the principal source of GSP imports in 1984, accounting for 82 percent ($46.4 million). Imports classified under TSUS items 806.30 and 807.00 were negligible, and there were no imports of flat glass under the CBI provision.

Flat glass and flat glass products are shipped to distributors and end users principally by truck and rail, and by container ship to overseas markets. A fairly common distribution practice within the industry is backhauling in order to reduce overall transportation costs. These costs can vary but are principally dependent on the weight of the goods and the length of the shipment. Industry officials indicated that transportation costs for U.S.-produced flat glass represent about 7 percent to 10 percent of the delivered price of the product. Transportation costs for imported flat glass accounted for an estimated 10 percent of the customs value of the product during 1981-84.

U.S. exports.--Total U.S. exports of flat glass and certain flat glass products decreased from $320.3 million in 1981 to $285.8 million in 1983 before rising to $301.1 million in 1984 (table 11). Exports accounted for an average of 9 percent of producers' shipments during the period. The United States experienced a trade deficit of $19.5 million in 1984, after trade surpluses decreased during the period from $178.1 million in 1981 to $38.6 million in 1983. U.S. exports have been hampered in many foreign markets by the prolonged economic recession abroad, the resultant decrease in construction activity, and the strong dollar.

Decreases occurred in exports to West Germany (59 percent), Mexico (57 percent), and Venezuela (56 percent) during 1981-84. Exports to Canada, the leading foreign market for U.S.-made flat glass, increased by 42 percent during the same period and accounted for 63 percent of total exports of flat glass and its products in 1984. Large exports to Canada are attributed in part to the interrelationship of several U.S. and Canadian companies, the proximity of the Canadian market, and the resulting lower transportation costs.

Exports of unprocessed ordinary glass (float, plate, and sheet glass) accounted for 26 percent of exports of flat glass in 1984 (table 12). Exports decreased 20 percent, from 186.7 million square feet ($114.0 million) in 1981 to 149.6 million square feet ($90.2 million) in 1983, before rising slightly to 150 million square feet ($78.2 million) in 1984. Canada, Mexico, and Venezuela were the major markets for unprocessed ordinary glass during the period.

Exports of unprocessed colored glass experienced an overall decrease from 71.6 million square feet ($42.2 million) in 1981 to 56.8 million square feet ($28.6 million) in 1984, a decline of 21 percent (table 13). The major markets were Canada, Mexico, and Venezuela.

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Exports of unprocessed rolled and wire glass dropped by 43 percent, from 6.0 million square feet ($10.0 million) in 1981 to 3.4 million square feet ($7.9 million) in 1982, before increasing to 5.7 million square feet ($9.5 million) in 1984 (table 14). The majority of exports went to Japan, France, and Canada.

Tempered glass exports declined by 18 percent, from 51.0 million square feet ($87.1 million) in 1981 to 41.7 million square feet ($90.2 million) in 1984 (table 15). Canada, West Germany, and Brazil were the major markets for tempered glass.

Laminated glass exports rose from $44.5 million in 1981 to $70.4 million in 1984, an increase of 58 percent (table 16). The principal markets for laminated glass were Canada and Japan.

Exports of multiple-glazed sealed insulating units declined erratically, from 256,000 units ($3.5 million) in 1981 to 69,000 units ($611,000) in 1984 (table 17). Canada was the major export market.

Exports of painted, colored, or stained glass windows were negligible.

Exports of other flat glass and products rose 24 percent from $19.0 million in 1981 to $23.6 million in 1984 (table 18). Such exports included edged glass strips and processed flat glass. The major export market was Canada.

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Appendix A

Selected Portions of the Tariff Schedules of the United States Annotated (1985)

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Explanation of the rates of duty applicable to flat glass and certain flat glass products

The rates of duty in column number 1 are most-favored-nation (MFN) rates and are applicable to imported products from all countries except those Communist countries and areas enumerated in general headnote 3(f) of the TSUSA. The People's Republic of China, Hungary, Romania, and Yugoslavia are the only Communist countries eligible for MFN treatment. However, MFN rates do not apply to products of developing countries if preferential tariff treatment is granted under the Generalized System of Preferences (GSP) or the Caribbean Basin Economic Recovery Act (CBERA), or under the LDDC column.

The preferential rates of duty in the LDDC (least developed developing countries) column reflect the full U.S. MTN concession rates implemented without staging for particular items; they apply to covered products of the LDDC enumerated in general headnote 3(d) of the TSUS. Where no rate of duty is provided in the LDDC column for a particular item, the column 1 rate applies.

The rates of duty in column number 2 apply to imported products from those Communist countries and areas enumerated in general headnote 3(f) of the TSUSA.

The GSP is a program of nonreciprocal tariff preferences granted by the United States to developing countries to aid their economic development by encouraging greater diversification and expansion of their production and exports. The GSP was enacted in title V of the Trade Act of 1974, was implemented by Executive Order No. 11888 of November 24, 1975, and was renewed in title V of the Trade and Tariff Act of 1984; it applies to merchandise imported on or after January 1, 1976, and is scheduled to remain in effect through July 4, 1993. It provides duty-free entry to eligible articles imported directly from designated beneficiary developing countries. Eligible articles are identified in the column marked "GSP" with an "A" or "A*." The designation "A" means that all beneficiary developing countries are eligible for the GSP, and "A*" indicates that certain developing countries, specified in general headnote 3(c) of the TSUSA, are not eligible.

The CBERA is a program of nonreciprocal tariff preferences granted by the United States to developing countries in the Caribbean Basin area to aid their economic development by encouraging greater diversification and expansion of their production and exports. The CBERA was enacted in title II of Public Law 98-67 and implemented by Presidential Proclamation 5133 of November 30, 1983; it applies to merchandise entered or withdrawn from warehouse for consumption, on or after January 1, 1984, and is scheduled to remain in effect until September 30, 1995. It provides duty-free entry to eligible articles imported directly from designated developing countries in the Caribbean Basin area. (See general headnote 3(g) of the TSUSA.)

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GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty		
					1	LDDC	2
A	540.71	00	Glass fibers in bulk; glass fibers in the form of mats, batts, blankets, felts, pads, casings and boards, all the foregoing, of a density not over 25 pounds per cubic foot, whether or not coated, impregnated, or bonded with glue, plastics, or other substances, or lined, backed, or supported with paper, paperboard, fabrics or similar material, or with metal mesh or foil; glass-fiber filters, with or without their frameworks or supports; and articles not specially provided for, of glass fibers.....	X.....	7.6% ad val.	6.2% ad val.	50% ad val.
	540.72	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6)...	X.....	Free		

Subpart B. - Flat Glass and Products Thereof

Subpart B headnotes:

1. This subpart covers flat glass and certain articles made therefrom. This subpart does not cover --
   (i) articles described in subpart A or C of this part;
   (ii) glass optically worked (see part 2A of schedule 7);
   (iii) certain painted, colored, or stained glass windows imported for the use of religious institutions (see part 4 of schedule 8).

2. For the purposes of this subpart --
   (a) the term "cast or rolled glass" refers to glass that, as originally produced, has surfaces one or both of which, by a rolling process, have been made rough, figured, fluted, or ribbed, or have been otherwise impressed;
   (b) the term "ordinary glass" refers to glass other than "colored or special glass", as defined in headnote 2(c), infra;
   (c) the term "colored or special glass" refers to glass that has a transmittance of normally incident light of less than 66 percent at one or more wave lengths from 400 to 700 millimicrons, inclusive, or a transmittance of less than 80 percent at one or more wave lengths from 525 to 575 millimicrons, inclusive, for glass 1/4 inch in thickness, or of the equivalent transmittances for any other thickness, provided that, in determining such light transmittances, the effect of surface irregularities or configurations, or of other surface treatment (except flashing applied prior to solidification), and the effect of wire netting within the glass, shall be eliminated;

Note: For explanation of the symbol "A" or "A*" in the column entitled "GSP", see general headnote 3(c).

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GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty 1	Rates of Duty LDDC	Rates of Duty 2
			(d) the term "united inches" refers to the sum in inches of the length and width of a rectangle of glass; and (e) the term "polished", as used with reference to glass, refers to glass one or both of the surfaces of which have been made smooth and glossy, in whole or in part, by abrasive or chemical means, or by floating the glass over molten metal. 3. For the purposes of this subpart, superficial area shall be used in determining the surface area of cast or rolled glass. 4. Glass provided for in items 542.11 through 542.98, imported in any shipment in quantities over 50 square feet of the same size and thickness, shall be denied entry unless -- (i) packed in units containing, as nearly as the particular size permits, 50 square feet, or multiples thereof, or (ii) packed in units containing multiples of the number of sheets of the same size and thickness which would be contained in a unit if packed to contain, as nearly as such size permits, 50 or 100 square feet, or (iii) otherwise packed in a manner which conforms to the packing practices of the domestic glass industry as determined and published from time to time by the Secretary of the Treasury.				
	541.01	00	Ribbon glass, or flat glass, in rectangles or otherwise, not ground and not otherwise processed, weighing not over 4 oz. per sq. ft.....	Lb.....	Free		Free
			Glass (whether or not containing wire netting), in rectangles, not ground, not polished and not otherwise processed, weighing over 4 oz. per sq. ft.: Cast or rolled glass:				
A	541.11	00	Ordinary glass.....	Lb.....v Sq. ft.	0.2¢ per lb.		1.5¢ per lb.
			Colored or special glass:				
A	541.21	00	Opaque and measuring over 15/64 inch in thickness.....	Lb.....v Sq. ft.	0.5¢ per lb.		5.5¢ per lb.
A	541.31	00	Opaque and measuring not over 15/64 inch in thickness, or not opaque and of any thickness.....	Lb.....v Sq. ft.	0.2¢ per lb. + 0.9% ad val.		1.5¢ per lb. + 5% ad val.
			Other, including blown or drawn glass, but excluding pressed or molded glass: Ordinary glass: Weighing over 4 oz. but not over 12 oz. per sq. ft.:				
	542.11	00	Measuring not over 40 united inches.....	Lb.....	0.7¢ per lb.		1.5¢ per lb.
	542.13	00	Measuring over 40 united inches....	Lb.....	0.9¢ per lb.		1.9¢ per lb.
			Weighing over 12 oz. but not over 16 oz. per sq. ft.:				
	542.21	00	Measuring not over 40 united inches.....	Lb.....	1¢ per lb.		2.1¢ per lb.
	542.23	00	Measuring over 40 but not over 60 united inches.....	Lb.....	1.1¢ per lb.		2.4¢ per lb.
	542.25	00	Measuring over 60 united inches....	Lb.....	1.2¢ per lb.		2.5¢ per lb.
			Note: For explanation of the symbol "A" or "A*" in the column entitled "GSP", see general headnote 3(c).				

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TARIFF SCHEDULES OF THE UNITED STATES ANNOTATED (1985)

SCHEDULE 5. - NONMETALLIC MINERALS AND PRODUCTS
Part 3. - Glass and Glass Products

GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty		
					1	LDDC	2
			Glass (whether or not containing wire netting), etc. (con.):				
			Other, including blown or drawn glass, etc. (con.):				
			Ordinary glass (con.):				
			Weighing over 16 oz. but not over 28 oz. per sq. ft.:				
	542.31		Measuring not over 40 united inches.....	.....	0.4¢ per lb.		1.5¢ per lb.
		20	Weighing over 16 oz. but not over 18-1/2 oz. per sq. ft....	Lb.			
		40	Weighing over 18-1/2 oz. but not over 20 oz. per sq. ft....	Lb.			
		70	Weighing over 20 oz. but not over 28 oz. per sq. ft.....	Lb.			
	542.33		Measuring over 40 but not over 60 united inches.....	.....	0.5¢ per lb.	0.4¢ per lb.	1.9¢ per lb.
		20	Weighing over 16 oz. but not over 18-1/2 oz. per sq. ft....	Lb.			
		40	Weighing over 18-1/2 oz. but not over 20 oz. per sq. ft....	Lb.			
		70	Weighing over 20 oz. but not over 28 oz. per sq. ft.....	Lb.			
	542.35		Measuring over 60 but not over 100 united inches.....	.....	0.5¢ per lb.	0.4¢ per lb.	2.4¢ per lb.
		20	Weighing over 16 oz. but not over 18-1/2 oz. per sq. ft....	Lb.			
		40	Weighing over 18-1/2 oz. but not over 20 oz. per sq. ft....	Lb.			
		70	Weighing over 20 oz. but not over 28 oz. per sq. ft.....	Lb.			
	542.37		Measuring over 100 united inches...	.....	0.8¢ per lb.	0.7¢ per lb.	2.8¢ per lb.
		20	Weighing over 16 oz. but not over 18-1/2 oz. per sq. ft....	Lb.			
		40	Weighing over 18-1/2 oz. but not over 20 oz. per sq. ft....	Lb.			
		70	Weighing over 20 oz. but not over 28 oz. per sq. ft.....	Lb.			
			Weighing over 28 oz. per sq. ft.:				
	542.42		Not over 2-2/3 sq. ft. in area.....	.....	0.5¢ per lb.		1.5¢ per lb.
		20	Weighing over 28 oz. but not over 42 oz. per sq. ft.....	Lb.			
		50	Weighing over 42 oz. per sq. ft.....	Lb.			
	542.44		Over 2-2/3 but not over 7 sq. ft. in area.....	.....	0.6¢ per lb.	0.5¢ per lb.	1.9¢ per lb.
		20	Weighing over 28 oz. but not over 42 oz. per sq. ft.....	Lb.			
		50	Weighing over 42 oz. per sq. ft.....	Lb.			

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SCHEDULE 5. - NONMETALLIC MINERALS AND PRODUCTS
Part 3. - Glass and Glass Products

5 - 3 - B
542.46 - 542.98

GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty 1	Rates of Duty LDDC	Rates of Duty 2
			Glass (whether or not containing wire netting), etc. (con.):				
			Other, including blown or drawn glass, etc. (con.):				
			Ordinary glass (con.):				
			Weighing over 28 oz. per sq. ft. (con.):				
	542.46		Over 7 but not over 15 sq. ft. in area	.....	0.7¢ per lb.	0.6¢ per lb.	2.4¢ per lb.
		20	Weighing over 28 oz. but not over 42 oz. per sq. ft	Lb.			
		50	Weighing over 42 oz. per sq. ft	Lb.			
	542.48		Over 15 sq. ft. in area	.....	0.8¢ per lb.	0.6¢ per lb.	2.8¢ per lb.
		15	Weighing over 28 oz. but not over 42 oz. per sq. ft	Lb.			
		35	Weighing over 42 oz. per sq. ft	Lb.			
			Colored or special glass:				
A	542.57	00	Weighing over 4 oz. but not over 12 oz. per sq. ft	Lb.....	1.4¢ per lb.		4¢ per lb.
A	542.67	00	Weighing over 12 oz. but not over 16 oz. per sq. ft	Lb.....	4.1¢ per lb.	3.5¢ per lb.	13¢ per lb.
			Weighing over 16 oz. but not over 28 oz. per sq. ft:				
A	542.71	00	Measuring not over 40 united inches	Lb.....	0.6¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	1.5¢ per lb. + 5% ad val.
A	542.73	00	Measuring over 40 but not over 60 united inches	Lb.....	0.6¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	1.9¢ per lb. + 5% ad val.
A	542.75	00	Measuring over 60 but not over 100 united inches	Lb.....	0.7¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	2.4¢ per lb. + 5% ad val.
A	542.77	00	Measuring over 100 united inches	Lb.....	0.8¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	2.8¢ per lb. + 5% ad val.
			Weighing over 28 oz. per sq. ft.:				
A	542.92	00	Not over 2-2/3 sq. ft. in area	Lb.....	0.6¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	1.5¢ per lb. + 5% ad val.
A	542.94	00	Over 2-2/3 but not over 7 sq. ft. in area	Lb.....	0.6¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	1.9¢ per lb. + 5% ad val.
A	542.96	00	Over 7 but not over 15 sq. ft. in area	Lb.....	0.7¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	2.4¢ per lb. + 5% ad val.
A	542.98	00	Over 15 sq. ft. in area	Lb.....	0.8¢ per lb. + 2.1% ad val.	0.6¢ per lb. + 2% ad val.	2.8¢ per lb. + 5% ad val.

Note: For explanation of the symbol "A" or "A*" in the column entitled "GSP", see general headnote 3(c).

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GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty		
					1	LDDC	2
			Glass (including plate glass and float glass), whether or not containing wire netting, in rectangles, ground or polished on one or both surfaces in whole or in part, but not further processed:				
			Ordinary glass:				
A	543.11	00	Containing wire netting	Sq. ft..	3.2¢ per sq. ft.	3¢ per sq. ft.	23¢ per sq. ft.
			Not containing wire netting:				
			Measuring not over 15/32 inch in thickness:				
	543.21	00	Not over 2-2/3 sq. ft. in area	Sq. ft..	1.7¢ per sq. ft.		12.5¢ per sq. ft.
	543.23	00	Over 2-2/3 but not over 7 sq. ft. in area	Sq. ft..	2.1¢ per sq. ft.	2¢ per sq. ft.	17.25¢ per sq. ft.
	543.27		Over 7 sq. ft. in area	.....	1.8¢ per sq. ft.	1.5¢ per sq. ft.	19.75¢ per sq. ft.
		30	Measuring less than 7/32 inch in thickness	Sq. ft.			
		70	Measuring 7/32 inch or more but not over 15/32 inch in thickness	Sq. ft.			
	543.31	00	Measuring over 15/32 inch in thickness	Sq. ft..	7.1% ad val.	6% ad val.	50% ad val.
			Colored or special glass:				
			Measuring not over 15/32 inch in thickness:				
	543.61	00	Not over 2-2/3 sq. ft. in area	Sq. ft..	0.4¢ per sq. ft. + 0.3% ad val.	Free	12.5¢ per sq. ft. + 5% ad val.
	543.63	00	Over 2-2/3 but not over 7 sq. ft. in area	Sq. ft..	1.3¢ per sq. ft. + 0.6% ad val.	1¢ per sq. ft. + 0.4% ad val.	17.25¢ per sq. ft. + 5% ad val.
	543.67	00	Over 7 sq. ft. in area	Sq. ft..	1.8¢ per sq. ft. + 0.6% ad val.	1.5¢ per sq. ft. + 0.4% ad val.	19.75¢ per sq. ft. + 5% ad val.
	543.69	00	Measuring over 15/32 inch in thickness	Sq. ft..	7.6% ad val.	6.3% ad val.	55% ad val.
			Glass (including cast, rolled, drawn, or blown glass, whether or not containing wire netting or surface ground or polished), cut to other than rectangular shape (except glass provided for in item 541.01), and glass (including cast, rolled, drawn, or blown glass, whether or not containing wire netting or surface ground or polished), whether in rectangles or cut to other than rectangular shape, subjected to bending, curving, beveling, edging, notching, drilling, chipping, sanding, embossing, engraving, etching, coating, staining, enamelling, painting, decorating, or any combination thereof, all the foregoing glass, whether or not such cutting or processing dedicates the glass to a specific use, but not including any article hereinafter described in this subpart or described in subpart A or C of this part:				
A	544.11	00	Strips, not over 6 inches in width, weighing over 16 ounces per square foot, and having all longitudinal edges ground or otherwise smoothed or processed	Sq. ft..	8.8% ad val.		53% ad val.

Note: For explanation of the symbol "A" or "A*" in the column entitled "GSP", see general headnote 3(c).

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GSP	Item	Stat. Suffix	Articles	Units of Quantity	Rates of Duty 1	Rates of Duty LDDC	Rates of Duty 2
			Glass (including cast, rolled, drawn), etc. (con.):				
			Other:				
A	544.14	00	Glass measuring over 15/32 inch in thickness..	Sq. ft..	7.6% ad val.	6.3% ad val.	60% ad val.
			Other:				
A	544.16	00	Glass, drawn or blown and not containing wire netting and not surface ground or polished.....	Sq. ft..	9.2% ad val.	7.2% ad val.	60% ad val.
	544.17	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	Sq. ft..	Free		
A	544.18		Other.....	.....	5.6% ad val.	4.9% ad val.	60% ad val.
		20	Surface ground or polished glass (including plate glass and float glass) with an absorbent or reflective coating.....	Sq. ft.			
		40	Other.....	Sq. ft.			
	544.20	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	Sq. ft..	Free		
A	544.31	00	Toughened (specially tempered) glass, made of any of the glass described in items 541.11 through 544.18, whether or not shaped or framed or both.....	Sq. ft..	7.4% ad val.	6.2% ad val.	50% ad val.
	544.32	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	Sq. ft..	Free		
A	544.41		Laminated glass made of two or more layers of any of the glass described in items 541.11 through 544.31, inclusive, and other material, whether or not shaped or framed or both.....	.....	6.4% ad val.	5.3% ad val.	60% ad val.
		20	Automotive.....	Sq. ft.			
		40	Other.....	X			
	544.42	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	Sq. ft..	Free		
	544.43	00	Windshields if certified for use in civil aircraft (see headnote 3, part 6C, schedule 6).....	Sq. ft..	Free		60% ad val.
			Mirrors, made of any of the glass described in items 541.11 through 544.41, with or without frames or cases (except framed or cased mirrors of precious metal, and mirrors designed for use in instruments):				
A	544.51	00	Not over 1 sq. ft. in reflecting area.....	No.....	10.2% ad val.	7.8% ad val.	50% ad val.
	544.52	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	No.....	Free		
A	544.54	00	Over 1 sq. ft. in reflecting area.....	Sq. ft..	10% ad val.		45% ad val.
	544.55	00	If Canadian article and original motor-vehicle equipment (see headnote 2, part 6B, schedule 6).....	Sq. ft..	Free		
A	544.61	00	Multiple-glazed units made of any of the glass described in items 541.11 through 544.41, however sealed, containing two or more glass sheets with a vacuum, or air or other gas between them.....	No.....	6.1% ad val.	4.6% ad val.	50% ad val.
A	544.64	00	Painted, colored, or stained glass windows, however set, and parts thereof.....	Sq. ft..	9.2% ad val.	7.2% ad val.	60% ad val.

Note: For explanation of the symbol "A" or "A*" in the column entitled "GSP", see general headnote 3(c).

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Appendix B

Statistical Tables

Table 1.--Flat glass and certain flat glass products: U.S. producers' shipments, exports of domestic merchandise, imports for consumption, and apparent consumption, 1980-84

Year	Producers' shipments 1/	Exports	Imports	Apparent consumption	Ratio of imports to consumption
	Million dollars				Percent
1980	2/ 3,067.5	302.2	144.5	2,909.8	5.0
1981	3,346.8	320.3	142.2	3,168.7	4.5
1982	3,157.1	287.3	185.9	3,055.7	6.1
1983	3,457.9	285.8	247.2	3,419.3	7.2
1984	3,700.0	301.1	320.6	3,719.5	8.6

1/ Estimated by the staff of the U.S. International Trade Commission.
2/ Revised.

Source: Compiled from official statistics of the U.S. Department of Commerce, except as noted.

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Table 2.--Flat glass and certain products thereof: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Canada	54,720	48,261	74,339	105,240	143,815
Mexico	6,309	5,300	25,250	34,120	52,634
Japan	29,758	33,589	30,745	40,415	42,612
Fr Germ	20,301	19,018	19,450	22,971	24,313
U King	5,143	5,461	4,703	5,591	9,175
Belgium	5,573	5,866	6,040	7,311	7,131
Rep Saf	2,966	3,585	5,659	4,188	4,969
Spain	2,735	3,485	3,275	4,115	4,588
All other	16,990	17,629	16,437	23,244	31,322
Total	144,497	142,195	185,899	247,195	320,559

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 3.--Unprocessed ordinary glass (float, plate, and sheet glass): U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Fr Germ	8,268	6,530	11,971	14,815	15,097
Mexico	72	63	1,671	18,404	18,216
Canada	21,252	6,542	9,378	9,470	9,167
Switzld	7,992	7,788	7,047	11,444	11,871
Belgium	14,723	14,031	13,547	12,314	12,775
Romania	28,931	20,204	14,933	23,813	25,485
Japan	809	300	276	756	511
Kor Rep	0	453	3,438	9,022	5,348
All other	20,817	12,172	15,559	9,244	9,716
Total	102,864	68,082	77,819	109,281	108,186
	Value (1,000 dollars)				
Fr Germ	6,135	5,912	5,785	6,426	7,738
Mexico	279	193	559	3,487	4,555
Canada	7,184	2,759	2,957	2,886	2,805
Switzld	1,504	1,346	1,260	2,552	2,723
Belgium	3,907	4,599	3,619	3,933	2,710
Romania	3,137	2,521	1,799	2,436	2,615
Japan	1,027	1,305	1,340	2,224	1,240
Kor Rep	-	72	833	1,856	1,157
All other	3,308	3,123	3,293	2,671	2,681
Total	26,479	21,830	21,445	28,471	28,223
	Unit value (per square foot)				
Fr Germ	$0.74	$0.91	$0.48	$0.43	$0.51
Mexico	3.89	3.04	0.33	0.19	0.25
Canada	0.34	0.42	0.32	0.30	0.31
Switzld	0.19	0.17	0.18	0.22	0.23
Belgium	0.27	0.33	0.27	0.32	0.21
Romania	0.11	0.12	0.12	0.10	0.10
Japan	1.27	4.35	4.86	2.94	2.42
Kor Rep	-	0.16	0.24	0.21	0.22
All other	0.16	0.26	0.21	0.29	0.28
Average	0.26	0.32	0.28	0.26	0.26

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 4.--Unprocessed colored glass (float, plate, and sheet glass): U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Fr Germ	1,889	1,662	1,753	3,161	2,837
Mexico	5	95	985	3,213	4,428
Japan	2,720	3,434	1,761	1,507	1,307
Canada	781	389	2,518	994	2,545
Italy	0	286	488	932	1,025
U King	122	73	30	57	131
Singapr	0	0	328	1,602	853
Spain	122	1,573	1,693	1,547	590
All other	1,167	421	1,204	2,866	1,850
Total	6,806	7,934	10,759	15,878	15,566
	Value (1,000 dollars)				
Fr Germ	3,694	3,429	2,808	3,598	2,991
Mexico	3	42	317	1,087	1,500
Japan	1,906	2,452	1,429	1,127	963
Canada	283	279	837	361	878
Italy	-	335	462	640	743
U King	220	478	174	362	710
Singapr	-	-	195	1,019	547
Spain	116	1,045	1,095	1,002	492
All other	660	700	899	1,782	873
Total	6,882	8,760	8,216	10,978	9,700
	Unit value (per square foot)				
Fr Germ	$1.96	$2.06	$1.60	$1.14	$1.05
Mexico	0.51	0.44	0.32	0.34	0.34
Japan	0.70	0.71	0.81	0.75	0.74
Canada	0.36	0.72	0.33	0.36	0.35
Italy	-	1.17	0.95	0.69	0.73
U King	1.80	6.55	5.82	6.29	5.42
Singapr	-	-	0.59	0.64	0.64
Spain	0.95	0.66	0.65	0.65	0.83
All other	0.57	1.66	0.75	0.62	0.47
Average	1.01	1.10	0.76	0.69	0.62

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 5--Unprocessed rolled and wire glass: U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Japan	6,502	8,198	6,662	6,662	6,897
U King	578	860	909	897	1,220
Fr Germ	1,935	1,514	967	1,650	1,525
Belgium	906	1,005	395	626	864
Singapr	0	0	0	0	297
Mexico	7	24	6	269	578
China t	359	375	209	864	706
Czecho	158	235	107	126	268
All other	293	775	732	1,229	1,890
Total	10,738	12,987	9,987	12,323	14,244
	Value (1,000 dollars)				
Japan	6,490	9,213	7,999	7,746	7,526
U King	706	1,037	1,116	941	1,492
Fr Germ	1,415	1,031	753	846	674
Belgium	443	425	253	313	398
Singapr	-	-	-	-	127
Mexico	5	10	5	59	84
China t	59	50	29	166	69
Czecho	63	111	49	57	58
All other	154	268	242	314	409
Total	9,334	12,146	10,446	10,442	10,837
	Unit value (per square foot)				
Japan	$1.00	$1.12	$1.20	$1.16	$1.09
U King	1.22	1.21	1.23	1.05	1.22
Fr Germ	0.73	0.68	0.78	0.51	0.44
Belgium	0.49	0.42	0.64	0.50	0.46
Singapr	-	-	-	-	0.43
Mexico	0.70	0.44	0.82	0.22	0.14
China t	0.16	0.13	0.14	0.19	0.10
Czecho	0.40	0.47	0.46	0.45	0.22
All other	0.53	0.35	0.33	0.26	0.22
Average	0.87	0.94	1.05	0.85	0.76

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 6.--Tempered glass: U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Canada	11,735	15,253	19,672	24,142	32,204
Mexico	1	1/	6	15,062	25,766
Japan	2,135	2,561	2,621	2,350	3,686
Fr Germ	626	533	455	389	557
U King	414	341	256	319	1,623
Spain	551	406	401	4,375	7,193
Rep Saf	131	264	3,559	238	412
Brazil	1/	14	1	24	3,054
All other	4,973	4,910	1,924	1,312	2,311
Total	20,566	24,282	28,897	48,211	76,806
	Value (1,000 dollars)				
Canada	24,454	34,557	48,567	52,919	68,834
Mexico	6	4	30	9,892	20,518
Japan	6,936	7,117	8,079	8,325	13,307
Fr Germ	3,089	2,567	2,707	2,605	3,210
U King	1,411	1,432	1,147	1,980	2,909
Spain	200	166	167	1,223	2,091
Rep Saf	771	1,421	2,711	1,157	1,818
Brazil	1/	1	3	41	984
All other	2,205	2,834	1,985	1,675	2,983
Total	39,072	50,100	65,396	79,819	116,660
	Unit value (per square foot)				
Canada	$2.08	$2.27	$2.47	$2.19	$2.14
Mexico	4.39	15.65	5.05	0.66	0.80
Japan	3.25	2.78	3.08	3.54	3.61
Fr Germ	4.93	4.82	5.94	6.71	5.77
U King	3.41	4.20	4.47	6.21	1.79
Spain	0.36	0.41	0.42	0.28	0.29
Rep Saf	5.87	5.39	0.76	4.87	4.41
Brazil	45.11	0.08	4.42	1.77	0.32
All other	0.44	0.58	1.03	1.28	1.29
Average	1.90	2.06	2.26	1.66	1.52

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 7.--Laminated glass: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Canada	21,741	9,872	20,424	47,224	69,053
Mexico	5,927	4,767	24,254	19,504	25,017
Japan	3,147	3,027	3,052	3,793	6,498
Fr Germ	2,928	3,403	4,147	4,157	5,475
Rep Saf	2,186	2,164	2,917	2,957	3,137
Finland	233	381	367	1,354	2,488
U King	1,396	1,009	965	1,358	2,417
Israel	1,176	1,024	617	1,020	1,450
All other	2,328	2,299	2,870	2,772	3,952
Total	41,060	27,946	59,612	84.141	119,488

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 8.--Multiple-glazed sealed insulating units: U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 units)				
Canada	10	9	14	20	17
Denmark	15	33	12	12	10
Ireland	0	0	0	0	13
Japan	1	3	1	8	22
U King	1/	1/	1/	1/	1/
Belgium	3	0	0	1/	1/
USSR	0	0	0	0	1/
China t	5	1/	4	8	4
All other	10	81	5	8	8
Total	43	126	35	56	75
	Value (1,000 dollars)				
Canada	412	639	1,051	1,140	1,660
Denmark	211	334	116	836	937
Ireland	-	-	-	-	500
Japan	37	62	1	42	102
U King	1	1	1	4	43
Belgium	3	-	-	11	6
USSR	-	-	-	-	5
China t	5	11	7	21	5
All other	16	246	17	532	20
Total	686	1,293	1,194	2,587	3,278
	Unit value (per unit)				
Canada	$41.17	$73.74	$75.18	$58.02	$96.52
Denmark	14.42	10.08	9.99	68.47	89.36
Ireland	-	-	-	-	39.68
Japan	38.28	23.80	2.25	5.62	4.62
U King	17.91	13.04	13.12	11.82	104.66
Belgium	1.14	-	-	866.08	693.89
USSR	-	-	-	-	68.95
China t	1.11	23.32	2.08	2.60	1.10
All other	1.66	3.04	3.48	66.51	2.51
Average	15.98	10.26	34.30	46.33	43.77

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 9.--Painted, colored, or stained glass windows, however set, and parts thereof: U.S. imports for consumption, by principal sources, 1980-84

Source	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
U King	158	183	117	101	112
China t	1	16	12	16	8
Mexico	6	1	2	2	3
Argent	1/	0	0	0	112
Belgium	1	1	3	4	3
France	1	1	1/	1/	3
Kor Rep	2	0	1/	1/	2
Switzld	1/	0	0	0	1/
All other	15	27	32	65	38
Total	184	229	165	189	281
	Value (1,000 dollars)				
U King	575	648	427	377	365
China t	1	48	61	87	62
Mexico	74	17	33	17	29
Argent	2	-	-	-	22
Belgium	13	13	22	45	22
France	25	18	6	5	21
Kor Rep	13	-	10	4	15
Switzld	1/	-	-	-	14
All other	63	70	90	72	59
Total	766	814	648	606	608
	Unit value (per square foot)				
U King	$3.65	$3.54	$3.66	$3.73	$3.26
China t	0.56	2.90	5.24	5.51	7.37
Mexico	12.27	21.70	17.02	7.00	8.32
Argent	20.28	-	-	-	0.20
Belgium	13.08	16.40	8.62	10.13	7.61
France	22.65	12.87	13.78	32.62	7.02
Kor Rep	6.85	-	103.97	11.47	8.01
Switzld	1.72	-	-	-	473.27
All other	4.16	2.64	2.84	1.11	1.54
Average	4.16	3.55	3.93	3.21	2.16

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 10.--Other flat glass and products n.e.c.: U.S. imports for consumption, by principal sources, 1980-84

(In thousands of dollars)

Source	1980	1981	1982	1983	1984
Japan	10,215	10,413	8,845	17,155	12,975
Fr Germ	3,025	2,626	3,217	4,806	4,209
Belgium	826	735	1,355	2,019	3,298
Kor Rep	361	689	1,182	1,000	2,334
China t	737	554	557	1,552	2,051
Spain	1,335	1,303	ı,051	829	1,074
Mexico	15	129	50	74	931
U King	488	407	661	226	783
All other	3,216	2,453	2,024	2,490	4,110
Total	20,218	19,308	18,942	30,151	31,765

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 11--Flat glass and certain products thereof: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Canada	125,192	133,413	142,052	157,365	189,534
Japan	6,398	6,457	6,742	9,687	14,214
Mexico	16,153	23,375	17,103	9,801	10,052
S Arab	8,221	9,053	10,380	11,691	9,059
Fr Germ	17,726	19,454	14,227	12,382	8,002
Austral	10,921	14,121	11,030	7,629	7,526
Venez	9,377	16,806	14,713	7,635	7,404
Hg Kong	3,718	5,292	4,184	5,249	5,610
All other	104,482	92,357	66,837	64,381	49,721
Total	302,187	320,328	287,269	285,820	301,123

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table12.--Unprocessed ordinary glass (float, plate, and sheet glass): U.S. exports of domestic merchandise, by principal markets, 1980-84

Market	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Canada	89,349	80,919	7?,138	87,457	91,176
Mexico	7,659	16,080	17,823	14,732	14,624
Venez	9,847	15,751	9,811	?,080	7,785
Austral	12,182	11,621	9,003	6,383	7,612
S Arab	1,941	2,672	2,527	3,004	2,857
U King	2,361	12,506	12,672	5,986	1,366
Hq Kong	683	2,228	994	1,165	792
N Zeal	1,861	2,994	1,163	1,758	2,979
All other	92,330	41,904	23,626	22,041	20,779
Total	218,214	186,674	150,759	149,607	149,969
	Value (1,000 dollars)				
Canada	40,407	40,918	33,813	41,593	36,917
Mexico	5,565	9,617	8,709	6,660	6,135
Venez	6,482	10,840	8,686	4,840	5,030
Austral	6,885	7,624	5,986	4,119	4,209
S Arab	3,146	3,964	4,243	4,929	4,154
U King	1,485	5,200	6,987	5,276	2,281
Hq Kong	1,908	2,745	2,548	1,934	1,668
N Zeal	1,336	2,040	930	1,072	1,544
All other	49,800	31,014	20,991	19,787	16,291
Total	117,014	113,963	92,894	90,208	78,228
	Unit value (per square foot)				
Canada	$0.45	$0.51	$0.46	$0.48	$0.40
Mexico	0.73	0.60	0.49	0.45	0.42
Venez	0.66	0.69	0.89	0.68	0.65
Austral	0.57	0.66	0.66	0.65	0.55
S Arab	1.62	1.48	1.68	1.64	1.45
U King	0.63	0.42	0.55	0.88	1.67
Hq Kong	2.79	1.23	2.56	1.66	2.11
N Zeal	0.72	0 68	0.80	0.61	0.52
All other	0.54	0.74	0.89	0.90	0.78
Average	0.54	0.61	0.62	0.60	0.52

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 13--Unprocessed colored glass (float, plate, and sheet glass): U.S. exports of domestic merchandise, by principal markets, 1980-84

Market	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Canada	37,722	33,870	30,371	36,068	33,017
Mexico	2,971	6,130	7,159	5,752	5,719
Venez	4,136	6,598	4,074	2,982	3,298
Austral	5,192	4,946	3,799	2,663	3,226
S Arab	689	1,094	990	1,113	1,100
U King	477	1,453	4,135	2,070	458
N Zeal	786	1,276	483	744	1,257
Hg Kong	233	512	410	487	306
All other	32,175	15,677	8,120	8,447	8,378
Total	84,381	71,556	59,541	60,327	56,758
	Value (1,000 dollars)				
Canada	16,488	16,378	12,504	15,225	13,307
Mexico	2,054	3,449	3,358	2,468	2,222
Venez	2,693	4,531	3,531	2,009	2,111
Austral	2,908	3,214	2,464	1,624	1,760
S Arab	750	1,237	1,220	1,438	1,376
U King	351	723	2,187	1,945	810
N Zeal	560	863	382	449	633
Hg Kong	711	902	1,054	774	555
All other	16,598	10,886	6,409	6,885	5,840
Total	43,113	42,183	33,110	32,818	28,614
	Unit value (per square foot)				
Canada	$0.44	$0.48	$0.41	$0.42	$0.40
Mexico	0.69	0.56	0.47	0.43	0.39
Venez	0.65	0.69	0.87	0.67	0.64
Austral	0.56	0.65	0.65	0.61	0.55
S Arab	1.09	1.13	1.23	1.29	1.25
U King	0.74	0.50	0.53	0.94	1.77
N Zeal	0.71	0.68	0.79	0.60	0.50
Hg Kong	3.05	1.74	2.57	1.59	1.81
All other	0.52	0.69	0.79	0.32	0.70
Average	0.51	0.59	0.56	0.54	0.50

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 14--Unprocessed rolled and wire glass: U.S. exports of domestic merchandise, by principal markets, 1980-84

Market	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Japan	263	390	241	231	1,018
France	153	203	410	640	742
Canada	2,303	2,855	1,861	2,188	1,739
Fr Germ	119	304	129	158	291
U King	317	251	169	113	77
Austral	161	52	65	44	64
Italy	16	32	16	7	27
S Arab	1	1	1	11	1,360
All other	623	1,925	550	370	385
Total	3,956	6,013	3,442	3,761	5,703
	Value (1,000 dollars)				
Japan	1,039	1,372	1,439	1,249	3,025
France	600	830	1,967	2,518	2,561
Canada	1,064	1,812	1,179	1,451	1,100
Fr Germ	449	1,275	802	737	789
U King	2,439	2,421	973	349	263
Austral	297	169	174	105	262
Italy	33	53	67	70	209
S Arab	2	6	12	51	199
All other	1,699	2,091	1,269	963	1,079
Total	7,621	10,028	7,881	7,494	9,489
	Unit value (per square foot)				
Japan	$3.94	$3.52	$5.97	$5.41	$2.97
France	3.93	4.09	4.79	3.94	3.45
Canada	0.46	0.63	0.63	0.66	0.63
Fr Germ	3.77	4.20	6.23	4.66	2.72
U King	7.69	9.64	5.77	3.09	3.41
Austral	1.84	3.23	2.69	2.39	4.08
Italy	2.09	1.66	4.18	10.19	7.79
S Arab	3.82	5.74	8.15	4.61	0.15
All other	2.73	1.09	2.31	2.61	2.80
Average	1.93	1.67	2.29	1.99	1.66

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 15.--Tempered glass: U.S. exports of domestic merchandise, by principal markets, 1980-84

Market	1980	1981	1982	1983	1984
	Quantity (1,000 square feet)				
Canada	17,599	27,579	32,892	31,382	35,291
Fr Germ	6,490	6,042	5,241	3,783	1,486
Brazil	2,813	2,543	1,714	1,624	458
S Arab	314	241	253	446	796
Austral	119	1,367	729	275	407
Malaysa	63	1/	3	11	179
U King	668	748	2,289	1,125	450
Kuwait	94	40	50	501	186
All other	9,184	12,469	6,577	3,038	2,405
Total	37,344	51,028	49,748	42,185	41,658
	Value (1,000 dollars)				
Canada	36,535	42,286	55,122	58,609	74,123
Fr Germ	14,240	14,977	11,430	7,800	4,374
Brazil	3,918	5,908	4,879	5,169	1,660
S Arab	2,544	1,441	1,754	1,614	1,584
Austral	507	1,827	1,458	811	798
Malaysa	52	1	7	79	739
U King	2,213	1,466	1,710	2,566	732
Kuwait	369	181	231	635	635
All other	16,274	18,992	10,727	6,056	5,570
Total	76,652	87,079	87,319	83,338	90,216
	Unit value (per square foot)				
Canada	$2.08	$1.53	$1.68	$1.87	$2.10
Fr Germ	2.19	2.48	2.18	2.06	2.94
Brazil	1.39	2.32	2.85	3.18	3.62
S Arab	8.09	5.98	6.92	3.62	1.99
Austral	4.27	1.34	2.00	2.94	1.96
Malaysa	0.82	64.56	2.46	7.21	4.14
U King	3.31	1.96	0.75	2.28	1.63
Kuwait	3.91	4.57	4.62	1.27	3.42
All other	1.77	1.52	1.63	1.99	2.32
Average	2.05	1.71	1.76	1.98	2.17

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 16--Laminated glass: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Canada	22,719	23,868	28,890	31,962	56,941
Japan	1,187	3,404	3,764	5,987	7,926
Kuwait	1,366	859	1,112	1,236	966
S Arab	720	1,205	1,270	1,351	855
U King	203	968	227	608	742
Mexico	6,438	5,017	1,721	280	438
Austral	134	419	196	294	256
Kor Rep	22	133	360	12	227
All other	6,860	8,667	5,928	5,605	2,046
Total	39,648	44,541	43,469	47,333	70,398

Source: Compiled from official statistics of the U.S. Department of Commerce.

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Table 17.--Multiple-glazed sealed insulating units: U.S. exports of domestic merchandise, by principal markets, 1980-84

Market	1980	1981	1982	1983	1984
	Quantity (1,000 units)				
Canada	205	137	300	233	37
S Arab	29	1/	42	18	5
Austral	2	52	31	40	13
Malaysa	0	0	0	0	7
Japan	8	0	1/	12	1
Cayman	1/	1	1	5	4
U King	1	1	18	1	1/
Mexico	1/	1	1	1/	1/
All other	23	63	22	15	2
Total	269	256	416	323	69
	Value (1,000 dollars)				
Canada	1,881	1,405	2,245	1,735	241
S Arab	197	6	1,022	172	137
Austral	21	571	299	595	79
Malaysa	-	-	-	-	50
Japan	235	-	4	62	29
Cayman	4	3	24	49	28
U King	23	42	276	16	13
Mexico	5	16	7	1	11
All other	308	1,482	246	298	23
Total	2,676	3,525	4,124	2,927	611
	Unit value (per unit)				
Canada	$9.16	$10.26	$7.48	$7.45	$6.45
S Arab	6.88	18.03	24.36	9.55	29.81
Austral	9.66	11.02	9.77	14.90	6.14
Malaysa	-	-	-	-	7.74
Japan	29.68	-	28.55	5.11	26.61
Cayman	10.89	4.48	16.18	9.73	7.50
U King	19.00	34.98	15.00	19.65	27.35
Mexico	10.99	11.17	11.00	61.55	24.67
All other	13.46	23.44	11.15	20.29	9.62
Average	9.94	13.79	9.92	9.05	8.80

1/ Less than 500.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table18.--Other flat glass and products n.e.c.: U.S. exports of domestic merchandise, by principal markets, 1980-84

(In thousands of dollars)

Market	1980	1981	1982	1983	1984
Canada	6,098	6,745	8,297	6,791	6,904
Hg Kong	166	484	406	2,411	3,156
Japan	1,338	1,006	525	1,314	2,167
Kor Rep	97	499	1,037	1,189	1,528
China t	97	102	596	1,545	1,235
Mexico	988	2,614	855	304	1,041
Singapr	92	218	1,124	1,499	878
S Arab	861	1,194	859	2,136	753
All other	5,726	6,148	4,774	4,514	5,905
Total	15,464	19,010	18,472	21,702	23,567

Source: Compiled from official statistics of the U.S. Department of Commerce.

SUMMARIES OF TRADE AND TARIFF INFORMATION

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		(Supplement--Feb. 1984)
5-2-2	May 1981	Ceramic Floor and Wall Tiles
		(Supplement--Aug. 1983)
5-3-3	May 1981	Glass Mirrors
		(Supplement--Jan. 1985)
5-1-4	Aug. 1981	Asbestos and Asbestos Products
		(Supplement--Sept. 1984)
5-1-5	Oct. 1981	Hydraulic Cement
		(Supplement--Sept. 1984)
5-2-6	Nov. 1981	Ceramic Table and Kitchen Articles
		(Supplement--Feb. 1984)
5-3-7	Oct. 1982	Flat Glass and Certain Flat Glass Products
5-2-8	Dec. 1982	Certain Ceramic Articles
5-1-9	Jan. 1983	Certain Nonmetallic Minerals and Certain Products
5-3-10	Feb. 1983	Household Glassware
		(Supplement--Oct. 1984)
5-3-11	Jun. 1983	Certain Glass and Glass Products
5-1-12	July 1984	Coal and Other Carbonaceous Materials

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